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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/749,341	12/31/2003	Manish Seth	60732-300101	8224		
7590 04/14/2006			EXAMINER			
Larry B. Guernsey, Esq.			SANDERS, KRIELL	SANDERS, KRIELLION ANTIONETTE		
Intellectual Prop	perty Law Offices	ART UNIT	PAPER NUMBER			
1901 S. Bascom	Avenue	1714	1714			
Campbell, CA	95008	DATE MAILED: 04/14/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary								
		10/749,34	1	MANISH, SETH				
		Examiner		Art Unit				
	The MAII ING DATE of this communication can	Kriellion A.		1714				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICH - Extension after SIX - If NO pe - Failure to Any repl	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. riod for reply is specified above, the maximum statutory period we or reply within the set or extended period for reply will, by statute, y received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THE 36(a). In no ever will apply and will cause the applic	IS COMMUNICATION nt, however, may a reply be time expire SIX (6) MONTHS from cation to become ABANDONE.	N. nely filed the mailing date of this com D (35 U.S.C. § 133)				
Status								
2a)	esponsive to communication(s) filed on his action is FINAL . 2b) This ince this application is in condition for allowan osed in accordance with the practice under Exercise 2.25 and 2.25 are accordance.	action is no	or formal matters, pro		merits is			
Disposition of Claims								
4a 5)	e specification is objected to by the Examiner e drawing(s) filed on is/are: a) acception and acception and acception and acception and acception to the complex of t	wn from con r election re r. epted or b)[drawing(s) be	quirement. display="block" one of the least section of the least section on the least section on the least section on the least section of the least sectio	e 37 CFR 1.85(a).	2.1.101(4)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	der 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice o 3) Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date 12/03.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ate	152)			

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election of Group II, claims 17-41 in the reply filed on 1/9/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 1-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

 Election was made without traverse in the reply filed on 1/9/06.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 17-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandon et al, US Patent No. 6114007 in view of Troutman et al, US Patent Publication 2004/0002559.

Brandon et al discloses fire resistant, composite molding compositions containing an effective amount of a flame retardant additive. Reinforced products made according to the

invention, such as composite roofing or construction materials, are rendered fire resistant in that the flame retardant additive, when exposed to temperatures high enough to cause combustion of the composite, decomposes and releases gases which act as flame suppressants. Also disclosed is a method of making suitably fire resistant composites, and articles formed therefrom. This method includes blending a resin, reinforcing fiber and filler in a mixer adding a liquid resin which would function as a lubricant, and extruding the mixture through a die. See col. 3, line 19 through col. 5, line 47.

The inorganic filler, when used, may be used at any desired amount, for example, at a concentration of from about 20% by weight to about 90% by weight of the composition.

Preferably, the amount of filler is from about 40% by weight to about 80% by weight. The PVC powder can be present in an amount of from about 1 to about 75% of the filler. Fillers that are useful for the patented resin resin system include slate flour, calcium carbonate, silicates, ground rock and clays. Where the composite is used to make roofing materials, slate flour is preferably used as the filler because it contributes to development of a desirable color in the molded product.

Various additional additives employed in the invention include fillers, catalysts, colorants, mold release agents and inhibitors. The formulations of the patented invention find utility in the manufacture of composites for uses in industries including but not limited to roofing, exterior floor and wall tiles, exterior siding, construction or automotive. A preferred use of the composite formulations is in the manufacture of construction materials such as roofing shingles or shakes.

The latter articles may take the form of the traditional "double coverage" layered tiles in which a significant portion of the shingle tile is covered or overlapped by the exposed portion of a superimposed tile. The composite formulations of the invention are however also sufficiently lightweight and durable to permit the manufacture of "single coverage" tiles in which only a small area of overlap is required between tiles.

Troutman et al Provides flame retardant coating compositions and articles coated therewith, which compositions comprise (A) a coating and (B) an effective flame retarding amount of a mixture of (i) at least one compound selected from the group consisting of the (a) sterically hindered nitroxyl stabilizers, (b) sterically hindered hydroxylamine stabilizers and (c) sterically hindered alkoxyamine stabilizers and (ii) at least one conventional flame retardant selected from the group consisting of (d) organohalogen flame retardants, (e) organophosphorus flame retardants, (f) isocyanurate flame retardants and (g) melamine based flame retardants. The coated articles are for example iron, steel, stainless steel, aluminum and other non-ferrous metals, wood, plywood, paper, cardboard, chip board, particle board, plastics, thermoplastics, epoxies, neoprene, rubber

Patentee includes fillers such as talc, calcium carbonate, magnesium carbonate, zinc borate, silicates, silicones, glass fibres, glass bulbs, asbestos, kaolin, mica, barium sulfate, calcium sulfate, metal oxides, hydrates and hydroxides such as zinc oxide, magnesium hydroxide, alumina trihydrate, silica, calcium silicate, magnesium silicate. Suitable substrates for the patented coatings include iron, steel, stainless steel, aluminum and other non-ferrous metals, wood, plywood, paper, cardboard, chip board, particle board, plastics, PVC (polyvinyl chloride), thermoplastics, thermoplastic polyolefin, epoxies, neoprene, rubber and composites.

The patented coatings may be applied to exterior siding, interior structures, <u>roofing</u>, garages, ceilings, penetration barriers, and PVC wrappings. The coatings may be employed in private homes, hotels and offices, for example as applied to wallpaper, paneling, drywall, wallboard, wainscoting, trusses, flooring and subflooring, studs, architectural millwork and trim, tiles, exterior decks, ceiling tiles, kitchen cabinets, kitchen hoods, carpet backing, interior walls, doors, file cabinets, office furniture, safes and barriers. The patented coatings may also be applied to structural substrates. Suitable wood substrates suggested in the reference include dimensional lumber, plywood, particle board, OOSB board, unfinished interior wood, plywood acoustical board, insulation board, cellulose board, fiberboard, excelsior (wood wool), wood shavings, <u>cedar shakes</u>, unsheathed shingles, shakes, siding, telephone poles, posts, paper, paperboard, cardboard and corrugated sheets.

The patented compositions may contain additional components such as pigments, dyes, plasticizers, antioxidants, thixotropic agents, levelling assistants, basic costabilizers, further light stabilizers like UV absorbers and/or sterically hindered amines, metal passivators, metal oxides, organophosphorus compounds, hydroxylamines, and mixtures thereof, especially pigments, phenolic antioxidants, calcium stearate, zinc stearate, UV absorbers of the 2-(2'-hydroxyphenyl)benzotri- azole and 2-(2-Hydroxyphenyl)-1,3,5-triazine classes, and sterically hindered amines. The compositions may also comprise silica. See page 1, paragraph [0018] throughpage 3, paragraph [0065] and page 19, paragraph 0323 through page 20, paragraph [0337].

Because Troutman et al documents that various additives are conventional in compositions used to form components for building materials such as roofing, the inclusion of

metal stearates, talc silica and metal oxides in the molding compositions of Brandon et al would have been obvious to one of ordinary skill in the art at the time of applicant's invention. The selection of a virgin polymer or recycled polymer is usually determined by cost considerations and there is nothing unobvious in such a limitation. Brandon discloses such a wide variety of building components that may be formulated by the patented method that panels and embossed components would be considered obvious to the ordinary practitioner of this art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kriellion A. Sanders whose telephone number is 571-272-1122. The examiner can normally be reached on Monday through Thursday 6:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kriellion A. Sanders

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Art Unit: 1714

Primary Examiner Art Unit 1714

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